NEWSLETTER OF THE CALIFORNIA ACADEMY OF SCIENCES

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HISTORY
MUSEUM



# Networking with Nations to Build Wildlife Highways

DR. ARCHIE CARR III, WILDLIFE CONSERVATION SERIES

Whether it's called the panther, cougar, mountain lion, puma, or pantera, the New World's best known cat species owes its sprawling range to the Central American land bridge, which spans from Patagonia to northern Canada. Joining North and South America, this narrow strip of land allowed the panther, and thousands of other species, to expand their ranges and thrive in new territories.

To protect this "biological highway," Dr. Archie Carr III, the Wildlife Conservation

Society's regional coordinator for Mesoamerica and the Caribbean, pioneered a conservation strategy in 1987 called *Paseo Pantera*, or Path of the Panther. This path is an unbroken corridor of connected parks and protected areas for wildlife throughout Central America.

Dr. Carr saw that just a few decades ago, upland rain forests and dense vegetation had covered much of Central America, while mangrove swamps and coral reefs lined its two coasts. However, subsequent development and burgeoning human populations in seven small countries pushed wildlife into dwindling, isolated patchworks of land.

For the past ten years, Dr. Carr has worked with all Central American countries to make the corridor a reality. In 1994, following a period of war and unrest for much of the region, all seven Central American countries signed a landmark agreement to affirm the corridor as a conservation priority. Now called the Mesoamerica Biological Corridor, this program represents one of the world's most successful examples of multi-national cooperation in the name of conservation.

Dr. Carr's lecture will take place in the auditorium and is part of the Wildlife Talks Series, co-sponsored by the Academy of Sciences and the WCS. A reception will precede the lecture at 6:30 p.m.

Tuesday, June 10th – 7:30 p.m. (auditorium) Lecture only: \$6 members/\$10 nonmembers Reception and Lecture: \$36 members/\$45 nonmembers

For more information visit the WCS website at www.wcs.org. For tickets call 415-750-7128.

#### SPECIAL LECTURE

#### Frank J. Sulloway, Science Historian

Frank J. Sulloway is known for his study of the influence of birth order on personality, and the profound consequences of sibling competition on families and society as a whole. The results of the study are published in *Born to Rebel: Birth Order, Family Dynamics, and Revolutionary Genius*. This landmark work illustrates how the personalities of first-born children differ from those of their younger siblings, and how common human instincts play themselves out differently in the universal quest for parental favor. Sulloway has transformed our basic ideas of personality development, and offers a new understanding of how family dynamics cause siblings to differ.

HERBST LECTURES

Frank Sulloway is an M.I.T. Research Scholar, and author of *Freud: Biologist of the Mind*. He will speak at the Herbst Theatre at 8:00 p.m. on Monday, May 5. For tickets, please contact City Box Office at (415) 392- 4400.

#### Dr. C.J. Peters, Virologist, Author

Dr. C.J. Peters has been on the front lines for three decades in the biological war against lethally infectious viruses in South America, the United States and Africa. In his book *Virus Hunter*, he recounts his battle against these diseases, from investigating equine encephalitis to containing Ebola. As part of the Herbst Lecture Series, Peters will offer his own perspective on the clash between biology and humanity, and on the threat emerging viruses pose to our species.

Dr. Peters is chief of the Viral Special Pathogens Branch at the Centers for Disease Control (CDC) in Atlanta. He has appeared on *CBS Evening News, NBC Nightly News, Larry King Live* and CNN. This lecture will be presented at the Herbst Theatre at 8:00 p.m. on Thursday, May 15. For tickets, please contact City Box Office at (415) 392-4400.

These lectures are presented as part of "Conversations at Herbst Theatre," a lecture series sponsored by City Arts & Lectures and the California Academy of Sciences through a grant from the Richard & Rhoda Goldman Fund.

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## Cricket Keeping in China and Japan

To some people, the cricket is just a garden-variety insect. However, in China and Japan, where keeping pet crickets is a national pastime with a history reaching back a thousand years, crickets are mythological symbols, artistic subjects and literary metaphors.

Lisa Ryan, author of *Insect Musicians & Cricket Champions*, will take an engaging look at how people of Japan and China have been influenced by these insect neighbors.

Please join us for this special lecture in the auditorium at 7:30 p.m. A book-signing will follow the lecture at 8:30 p.m.

Thursday, May 8 — 7:30 p.m (auditorium) \$6 members/\$10 nonmembers

Author Lisa Ryan

Discover the natural world through Special Lectures, which feature authors and experts speaking on a variety of natural history topics. Please use newsletter order form for tickets, or call (415) 750-7128.

LOOK FOR OUR NEW LOGO, IMPROVED TO BEST REPRESENT OUR MISSION TO EXPLAIN AND EXPLORE THE NATURAL WORLD AS WE MOVE INTO THE 21ST CENTURY. AS THE ONLY MUSEUM ON THE WEST COAST TO HAVE AN AQUARIUM, PLANETARIUM, AND NATURAL HISTORY MUSEUM UNDER ONE ROOF, WE HAVE COMBINED THESE THREE COMPONENTS TO CREATE OUR NEW LOGO.



In conjunction with the exhibit, Rugs of Teec Nos Pos: Jewels of the Navajo

Loom, Ms. Ornelas, a fourth generation Navajo weaver, will demonstrate and discuss the art of Navajo weaving as she learned it from her mother at the age of eight. Teec Nos Pos, meaning "Circle of Cottonwoods" in Navajo, is located in Arizona and was established as a trading post in 1905. In this remote area, a distinctive pattern of rug weaving was born. The rugs, with their flamboyant colors and intricate designs, have become a hallmark of southwestern style.



**Barbara Teller Ornelas** 

April 12th and 13th — 10 a.m. to 4 p.m. (Oceans Hall)

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#### TURKEY AND THE TURQUOISE COAST

with Sam Taylor

he focus of this specially designed tour of Turkey is to discover some of the few remaining preserved natural habitats of the Mediterranean region. Dr. Sam Taylor, Curator of Education, will lecture throughout the trip on the impact humans have had on this area. You will visit four national parks with forests of pine, juniper and cedar in the Taurus Mountains near Antalya. At Samsundagi National Park near Kusadasi, you will find Mediterranean Macchia vegetation with Hay and chestnut trees. Dilek Peninsula National Park contains luxuriant forests including oaks found only in northern Anatolia. Seals and turtles are government-protected and live and breed along the coastline. Over 200 species of birds have been sighted at Lake Nanyas in Kuscenneti National Park, which was awarded the Natural History Site A Class Diploma by the European Community.

A highlight of the tour is sailing by private yacht, known as a "gulet" for four days along the Turquoise Coast. Swim in remote coves, dine on freshly caught fish, and make forays ashore to explore quaint fishing villages, ancient archaeological sites, and beaches where loggerhead turtles lay their eggs. The tour ends with 3 nights in Istanbul.

May 21 through June 7, 1998 Cost: To be announced



Aboard the MV HANSIATIC with John and Pam McCosker

Explore one of the last truly pristine regions in the world. This awesome continent and its satellite islands abound with life: millions of penguins returning to ancient breeding colonies, albatrosses and petrels rearing their chicks on cliffs abloom with brilliant lichens, and whales feasting on krill. The five star, 170 passenger HANSEATIC (Safety Ice Classified IAI) built in 1994 offers luxuriously appointed, spacious outside staterooms with views, and full size bathtubs and showers, a fleet of 14 Zodiacs, an observation lounge with 180-degree panoramic view, a passenger bridge with ocean charts and radar monitor, open policy on the navigational bridge, and a fitness center.

> January 26 through February 10, 1998 Cost: Berths start at \$6,975 plus airfare (based on double occupancy).

For detailed itineraries on these tours please call Deidre Kernan or Nancy Fuller at (415) 750-7348

Travel • A WORLD OF DIFFERENCE with Academy Travel • A WORLD OF DIFFEREN

#### TRADITIONAL ARTS

#### AFRICAN-AMERICAN WEDDING CUSTOMS

"Jumping the broomstick" is an American tradition that was practiced by black Americans who were denied the right to get married legally during the time of slavery. Keith and Yolanda Patterson will display various broomsticks and discuss their significance in African-American wedding rites.

April 5th — 1 p.m. (auditorium)

Explore cultural traditions from around the world in these one-hour presentations held Saturdays in the auditorium. Free after general admission. Call (415) 750-7165 for more information.

#### ACADEMY STORE

As a complement to Rugs of Teec Nos Pos: Jewels of the Navajo Loom, the Academy Store will host a Navajo jewelry and pottery Trunk Show April 19 and 20 in front of the Ethnic Arts Shop.

Barbara and John Goldeen from Santa Fe Crafts have been presenting their American Indian Jewelry for the last two years at the Academy Store, and will return to the Academy for the Trunk Show. Please join us in the celebration of Navajo jewelry April 19 and 20 from 10 a.m. to 5 p.m. at the Academy Ethnic Arts Store.



#### Notes ff

Dr. Charles studies the Recently, h insects, and forests.

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# JEWELS OF THE

his event will be a unique opportunity for members to meet Ruth Belikove, the collector of rugs of Teec Nos Pos, and master Navajo weaver Barbara Teller Ornealas.

In 1977, Ruth started a business buying and selling old Navajo textiles near her home in New Jersey. The nature of the art brought her to Arizona and New Mexico, where as Ruth tells it "I promptly fell in love." Of course, Ruth was referring to rugs and blankets that are artistic, intricate and beautifully designed, from a trading post in northern Arizona. Ruth immediately responded to these Teec Nos Pos rugs, and began to think that she could not live without them. Then she began buying them and hasn't stopped.

Master Navajo weaver Barbara Teller Ornelas was born in the vicinity of Montrose, Colorado. She was raised, along with her sisters and brothers, behind the Two Grey Hills Trading Post where her father was a trader.

Weaving has been in Barbara's family for generations, and both of her grandmothers were excellent weavers. Her paternal grandmother, Nellie Teller,



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SPECIAL

#### HORNBILLS: THE FEATHERED FARMERS OF SULAWESI

A WORLD OF DIFFERENCE

In 1992, Dr. Margaret Kinnaird and Dr. Tim O'Brien set out to investigate the hornbill population within the Tangkoko-Dua Sudara National Park — a 22,000-acre sanctuary. Drs. Kinnaird and O'Brien will reveal the impact of unchecked hunting and exploitation of forest products on the plants and animals of Sulawesi, including the red-knobbed hornbill.

This lecture will take place in the audito rium and is part of the Wildlife Talks Series, co-sponsored by the Academy of Sciences and the WCS.

*Tuesday, April 8 — 7:30 p.m.* (cocktail reception 6:30 p.m in Lovell White) Lecture only: \$6 members/\$10 nonmembers Reception and Lecture: \$36 members/\$45 nonmembers

For more information and tickets, call (415) 750-7128, or visit the WCS website on www.wcs.org.

#### O RESEARCH Q

#### om South Africa

Griswold, Schlinger Curator of Arachnids at the Academy, phylogeny, biogeography and behavioral ecology of spiders. traveled 3000 miles to South Africa to collect spiders, other interesting arthropods in montane and temperate rain-

a, temperate rainforests form an island-like pattern of widely arts. In the cold, southern part of the continent, forests occur

es along the coast. In the tropcur on the slopes of mountains. e forests harbor a special ders which are quite different vland surrounds. From these riswold collected more than specimens, as well as 1000 centipedes, and other arachof which are new species.



Dr. Griswold collecting in the field.

# NAVAJO LOOM

was famous for her Two-faced rugs, and her maternal grandmother, Susie Tom, made tradition-

> al Two Grey Hills rugs. Through the years, they made sure that all the women in the family learned how to weave. Because of this she is especially proud to carry on their tradition.

> The Academy invites all members to attend this special lecture dedicated to exploring the art of Navajo textiles, with a focus on the unique style of the rugs of Teec Nos Pos. Ruth Belikove will sign her book, The Rugs of Teec Nos Pos: Jewels of the Navajo Loom, after each lecture.

Wednesday, April 9 - 2 p.m. and 7:30 p.m. (auditorium)

This program is a benefit of membership. Please present your membership card at both the front entrance and the auditorium. Members' guests can purchase tickets for \$10 each for adults, and \$5 for children at the membership booth at the main Academy entrance. Please note: Only the main entrance will be open for members lectures.

MEMBERS NOTES: Protect your Membership. To help us guard against unauthorized use of your member card, please show your I.D. when you present your personal membership card at the entrance. In addition, please know that while your guest passes are transferable, your personal membership cards are not,

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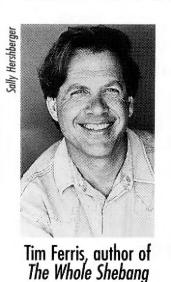
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## THE STATE OF THE UNIVERSE



Tim Ferris is author of The Whole Shebang, an expansive, nontechnical account of the exciting developments that are putting cosmology in the headlines. The centerpiece of Ferris' theory is a visionary account of near-future science, in which our universe is seen as one in an infinite number of universes, each with differing physical laws and differing prospects for the emergence of life. The lecture will be illustrated with

slides recently taken by the Hubble Space Telescope.

Ferris is the best-selling author of six previous books, including The Mind's Sky and Galaxies, and is on the faculty of the University of California at Berkeley. The lecture will be followed by a book-signing at 8:30 p.m.

Thursday, April 24 — 7:30 p.m. (auditorium) \$6 members/\$10 nonmembers

#### ASTRONOMY LECTURE

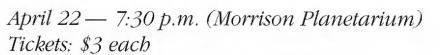
#### TRACKING NEAR EARTH ASTEROIDS WITH DR. ELEANOR HELIN

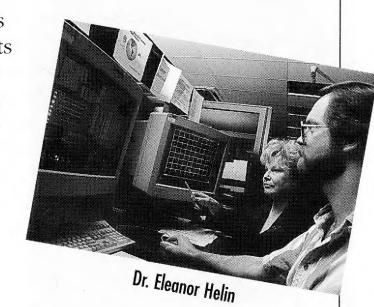
ur neighborhood in space is filled with small bits of debris left over from the formation of the solar system. We need only to look at the surface of the moon to see that collisions are inevitable. The 1994 collision of Comet Shoemaker-Levy 9 with Jupiter emphasized the possibility of an impact on Earth. Scientists are now working to detect and track nearby objects.

Dr. Eleanor Helin has been active in planetary sciences and astronomy for the past 35 years. In 1976, she discovered the first asteroid with an orbit smaller than Earth's. Such Aten Asteroids stay in the vicinity of Earth, and this closeness makes them more likely to impact our planet than other types of asteroids. Until recently they were rarely detected.

In December 1995, the Near-Earth Asteroid Tracking (NEAT) program was started, with Dr. Helin as Principal Investigator. In operation just over one year, the program has detected over 9000 objects, over half of which were previously unknown. Discoveries include over a dozen Near-Earth asteroids, Comet NEAT, and a unique object called 1996PW, the most eccentric asteroid known.

As well as near-space objects, Dr. Helin has been pursuing the distant transneptunian objects (TNOs) located in the outermost regions of the solar system. More and more, objects are being added to our solar system family, changing forever our view of our region of space and the probabilities of interactions. The Academy invites you to join us for this exciting evening of astronomical discovery with one of the foremost experts in the field.





The Spring '97 B. Dean Lecture Series will conclude on May 13 with Dr. Torrance V. Johnson speaking on the Galilean Moons of Jupiter. For advance tickets, use the order form. Tickets may be available at the door on a standby basis. For more information about these lectures, please call 750-7127.

#### PLANETARIUM

ith the long-awaited Comet Hale-Bopp finally at its best, armchair astronauts can explore comets old and new as Tales of a Comet continues in Northern California's largest planetarium. This show sheds light on new learnings about these strange visitors from deep space, and explains why there is so much excitement over Comet Hale-Bopp.

Other Worlds continues on Saturday and Sunday at 1:00 & 3:00 p.m. and on the first Wednesday of the month (Free Day) at 3:30 p.m., examining the new solar systems being discovered around distant stars.

Startalk, a relaxed tour of the nighttime sky over San Francisco, continues on Saturday and Sunday at noon and on Free Day at 12:30 p.m. This is the Planetarium's most loosely structured sky-show, allowing the lecturer to tailor his or her approach to the audience with discussion of constellations, planets, the phases of the Moon, and other celestial sights.

**Neighbors in Space**, featuring Moon Mouse, takes families with younger children on an imaginary trip to the Moon for a visual tour of our solar system. Presented on Saturday, Sunday, and Free Day at 11:00 a.m.

For answers to many skywatching questions, call the Morrison Planetarium's Skyline at (415) 750-7141, option #4, for pre-recorded monthly stargazing tips. Morrison Planetarium's free "Pocket Almanac," a brochure highlighting the year's upcoming naked-eye celestial events, is also available at the Academy or via mail with a letter-size self-addressed stamped envelope. The ever-popular Laserium continues Thursday through Sunday evenings, featuring multicolored laser graphics and animation choreographed to modern music under the Planetarium's star-filled dome. Call (415) 750-7138 for show descriptions, schedules, and prices.

## **APRIL SKY SHOWS**

| Sky Show/Description | Weekday     | Weekend    |
|----------------------|-------------|------------|
| Tales of a Comet     | 2 p.m.      | 2 & 4 p.m. |
| Other Worlds         | <del></del> | 1 & 3 p.m. |
| Startalk             | <del></del> | 12:00 p.m. |
| Neighbors in Space   | <del></del> | 11:00 a.m. |

Tickets can be purchased one-half hour before the show (box office opens at 10:30 a.m. on weekends) at the box office once inside the Academy of Sciences (\$2.50 adults/\$1.25 youth & seniors). Members must redeem their passes for tickets at the box office prior to the show. If you have a child under 6 years old with you, please ask the cashier for a Child's Pass. For more information, please call 750-7141.

#### SUN MON TUE WED THU FRI SAT 5 12 8 9 10 11 14 15 16 17 18 19 20 21 22 23 24 25 26 28 29 30

**APRIL** 

## Saturday

African-American Wedding Customs, 1 p.m. (Traditional Arts)

#### Sunday

Last day of Russian amber carving demonstration.

#### Tuesday

Hornbills: The Feathered Farmers of Sulawesi, 7:30 p.m. (WCS) Reception, 6:30 p.m.

#### Wednesday

Jewels of the Navajo Loom, 2 p.m. and 7:30 p.m. (Members Meeting)

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#### Saturday

Navajo Rug Weaving, 10 a.m. to 4 p.m. (Artist-in-Residence)

#### 13 Sunday

Ballet Russe, 1 p.m. (Young Audiences) Navajo Rug Weaving. 10 a.m. to 4 p.m. (Artist-in-Residence)

#### Saturday

Navajo Trunk Show, 10 a.m. to 5 p.m. 107 (Academy Store)

#### 20 Sunday

Navajo Trunk Show, 10 a.m. to 5 p.m. 107 (Academy Store)

#### Tuesday

Tracking Near Earth \* Asteroids, 7:30 p.m. (Planetarium Lecture)

#### 24 Thursday

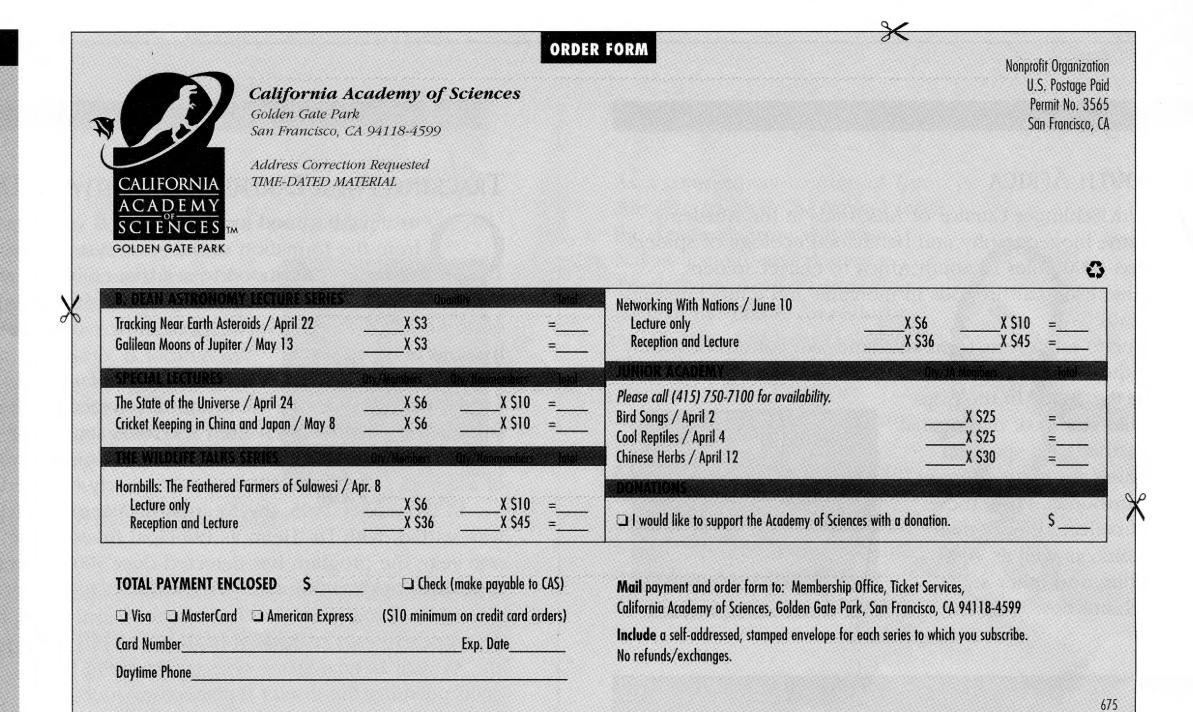
State of the Universe, 7:30 p.m. (Special Lecture)

#### FUTURE DATES TO REMEMBER

May 8 Cricket Keeping in China and Japan; May 13 Galilean Moons of Jupiter (B. Dean Lecture); May 14 Members Open House; June 10 Networking with Nations (WCS); June 11 Human Origins, with Blake Edgar

#### VISITOR INFORMATION

Special Exhibitions: "Amber: Window to the Past," through April 15 • "Folk Toys: The Playful Arts of Japan," through June • "Rugs of Teec Nos Pos: Jewels of the Navajo Loom," through September 27. • Feeding Times: Fish Roundabout, 2 p.m.; Penguins, 11:30 a.m. & 4 p.m. • Guided Tours: Free one-hour highlight tours daily. • Laserium Shows: Thu. – Sun. evenings. • Free Day: First Wed. of each month. • Hours: Open every day of the year. Winter hours 10 a.m. – 5 p.m. Summer hours (Memorial Day weekend to Labor Day) 9 a.m. – 6 p.m. • **Information**: Hotline (415) 750-7145, World Wide Web site http://www.calacademy.org



YOUNG AUDIENCES

# BALLET RUSSE

Young Audiences presents Ballet Russe, performing Russian Celebrations on April 13 in the auditorium. Experience dazzling Russian artistry through the lavish costuming, dynamic movements, and energetic music of one of America's premiere Russian dance ensembles. Children are invited to participate and learn about Russian history and cultural traditions through this fast-paced program.

This performance is one in the monthly series brought by Young Audiences to the California Academy of Sciences with a grant from San Francisco Grants for the Arts and is presented in the auditorium. Call (415) 863-1719 for more information.

Sunday, April 13 — 1 p.m. (auditorium)





# WATCH THIS SPACE...

...For more information about the next program in the Academy's popular series of financial seminars. Check the May Academy Newsletter for additional information and a registration form for "Sophisticated Estate Planning Techniques," presented by Clare Springs, J.D., and William Hoehler, J.D. This session will take place at 4:30 p.m. on May 20 in the Academy's Trustees Room. For more information, please call (415) 750-7216.

# Spring Holiday News From the Junior Academy

The Junior Academy's Spring Holiday calendar offers exciting science experiences for children age 6 to 16 years.

#### BIRD SONGS

It's springtime and the air is filled with song! We'll conduct a scientific experiment to learn why birds sing, and record bird sounds in Golden Gate Park. Participants will make their own sonograms to take home.

Wednesday, April 2 — 9 a.m. to noon Ages 9 to 16 years; \$25

#### COOL REPTILES

Ever wondered what makes a reptile a reptile? We'll study the biology and natural history of the four major classes of reptiles, visit the Academy's Swamp Area, play some games, and come face-to-scaly-face

with live and preserved specimens.

Friday, April 4 - 1 to 4 p.m. *Ages 6 to 8 years; \$25* 

## CHINESE HERBS

Discover the world and traditional uses of Chinese herbs. We'll visit a Chinese herb shop on Clement Street, and identify and purchase a selection of herbs. On our return to the Academy, we'll categorize the herbs, prepare a tea and construct an herbal pillow.

Saturday, April 12— 9 a.m. to noon Ages 9 to 12 years; \$30

For more information about these and other Junior Academy programs, please call (415) 750-7100.

WHOM TO CALL Academy Info, 750-7145 • Academy Store, 750-7410 • Aquarium, 750-7247 • Biodiversity Center, 750-7361 • Development Office, 750-7216 • Docent Tours, 750-7155 • Education Office, 750-7100 • Group Admissions, 750-7159 • Job Hotline, 750-7333 • Laserium, 750-7138 • Special Lectures, 750-7128 • Library, 750-7102 • Membership Office, 750-7111 • Planetarium, 750-7141 • Planned Giving, 750-7216 • Receptionist, 221-5100 • Security, 750-7000 • Travel, 750-7348 • Volunteer Services, 750-7154 • Weekend Information, 750-7375 © 1997 California Academy of Sciences — EDITOR, Samantha Moss / DESIGN, Johanna Dimayuga / PRINTING, Fruitridge Printing & Lithograph Inc. Printed on recycled paper with soy-based ink.

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